



# Washington Department of Fish and Wildlife

## Fish Passage & Diversion Screening Inventory Database Report Cover Sheet

The following report is extracted from the Washington Department of Fish and Wildlife's (WDFW) Fish Passage and Diversion Screening Inventory Database (FPDSI). WDFW makes every attempt to keep these reports in sync with FPDSI; however, the dynamic nature of the data and workflows associated with maintaining the database may result in short-term differences.

Users are encouraged to contact WDFW to discuss appropriate use of the data and how we can assist with fish passage barrier removal or inventory. Please visit the Fish Passage web site for contact information at: <https://wdfw.wa.gov/species-habitats/habitat-recovery/fish-passage/about>

### Disclaimers:

- Data presented here represent a snapshot observation of conditions in a dynamic environment that is subject to change. Fish passage data are also collected from a variety of agencies and sources. Therefore, WDFW makes no guarantee concerning the data's content, accuracy, completeness, or the results obtained from use of the data. WDFW assumes no liability for the data represented here.
- These data are not an attempt to provide you with an official agency response as to the impacts of your project on fish and wildlife.
- Note that some fish passage features, habitats or species may occur in areas not currently known to the WDFW Fish Passage division, and may not be reflected in this database. A lack of data does not necessarily indicate that a feature, habitat, or species are not present.
- Unauthorized attempts to alter or modify these data are strictly prohibited.
- Bankfull width measurements included in these reports should not be used for fish passage crossing design. They are solely for assessment purposes.
- The barrier status reported in this document is based on the swimming abilities of adult salmonids. Passabilities are a qualitative value, and should not be interpreted as a quantitative calculation. Please see page 1-4 of the Fish Passage Inventory, Assessment and Prioritization Manual for further clarification: <https://wdfw.wa.gov/publications/02061>
- EXIF data presented with Image Reports may be erroneous due to camera battery failures and resetting of camera clock functions.

### Abbreviations:

Most abbreviations in this report are defined in the Quick Reference Tables of the Fish Passage Inventory, Assessment, and Prioritization Manual. Additional commonly used abbreviations are defined as follows:

**NFB** = no potential salmonid use, **BB** = both banks, **LB** = left bank looking downstream, **RB** = right bank looking downstream, **US** or **U/S** = upstream, **DS** or **D/S** = downstream, **WSDrop** = water surface drop, **BFW** = bankfull width, **OHW** = ordinary high water, **SLW** = scour line width, **CMP** = corrugated metal pipe, **Q<sub>fp</sub>** = fish passage flow, **V&D** = Velocity and Depth, **ROW** = Right of Way

The FPDSI database often uses default values such as '-99.99' or '-999' to represent null values.

## WDFW Fish Passage and Diversion Screening Inventory Database

### Site Description Report

Site ID

Project

☐ Mitigated

#### Geographic Coordinates

Latitude (WGS 84):	<input type="text" value="48.319176743"/>
Longitude (WGS 84):	<input type="text" value="-122.280296755"/>
East (NAD 83 HARN):	<input type="text" value="1,207,110.2"/>
North (NAD 83 HARN):	<input type="text" value="1,093,932.4"/>

#### Waterbody

Stream:	<input type="text" value="unnamed"/>
Tributary To:	<input type="text" value="Starbird Cr"/>
WRIA:	<input type="text" value="03.0194"/>
River Mile:	<input type="text" value="-999.99"/>
Fish Use Potential:	<input type="text" value="Yes"/>
FUP Criteria:	<input type="text" value="Mapped"/>

#### General Location

Road Name:	<input type="text" value="Tyee Rd"/>
Mile Post:	<input type="text" value="-999.99"/>
County:	<input type="text" value="Skagit"/>
WDFW Region:	<input type="text" value="4"/>

#### Owner

Type:	<input type="text" value="County"/>
Name:	<input type="text" value="Skagit County"/>

#### PI Species

<input type="checkbox"/> Sockeye	<input type="checkbox"/> Chinook	<input checked="" type="checkbox"/> Sea Run Cutthroat
<input type="checkbox"/> Pink	<input checked="" type="checkbox"/> Coho	<input checked="" type="checkbox"/> Resident Trout
<input type="checkbox"/> Chum	<input checked="" type="checkbox"/> Steelhead	<input type="checkbox"/> Bull Trout

#### Associated Features

<input checked="" type="checkbox"/> Culvert	<input type="checkbox"/> Dam	<input type="checkbox"/> Natural Barrier	<input type="checkbox"/> Diversion
<input type="checkbox"/> Non-Culvert Xing	<input type="checkbox"/> Other	<input type="checkbox"/> Fishway	

#### Location/Directions

#### Site Comments

Wetland upstream and downstream. No defined channel.

11/21/2021

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# WDFW Fish Passage and Diversion Screening Inventory Database

## Level A Culvert Assessment Report

Site ID:	999114		
Latitude:	48.319176743	Stream:	unnamed
Longitude:	-122.280296755	Tributary To:	Starbird Cr
		WRIA:	03.0194
		Fish Use Potential:	Yes

Data Source	Washington Department of Fish and Wildlife		
Field Crew:	Barrett;Burns	Review Date:	4/19/2016

Culvert Details								Level A Parameters					
ID	Shape	Material	Span	Rise	Length	WDIC	Apron	WSDrop	Location	Countersunk	Backwater	Slope (%)	Sediment
1.1	RND	CST	0.46	0.46	10.20	0.46	NO	0.00		No	Yes	2.25	
All dimensions in meters													

<b>Channel Description</b>	
Toe Width (m):	1.7
Average Width (m):	-99.99
Culvert/Stream Width Ratio:	0.22
<b>Plunge Pool</b>	
Length (m):	-999.99
Max Depth (m):	-99.99
OHW Width (m):	-999.99
<b>Road</b>	
Fill Depth (m):	2.00



<b>Assessment Results</b>		Tidal Influence:		Tidegate Present:	No
Barrier:	Yes	Passability (%):	0	Method:	Other
Reason:	Debris	Fishway Present:	No	Recheck:	

<b>Comments</b>
Upstream end of pipe mostly filled with debris, blocking flow. Water is flowing over the road.

<b>Potential Habitat Gain</b>		
Survey Type:	RSFS	Spawning (sq m):
Significant Reach:	Yes	Rearing (sq m):
		Length (m):
		PI Total

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# WDFW Fish Passage and Diversion Screening Inventory Database

## Level B Culvert Assessment Report

Site ID:

### Reference Point

Elevation (m):  Location:

### Drainage Basin

Basin Area (sq mi):  Basin Precipitation (in):

### Culvert Elevations

Culvert ID	Corrugation	USIE (m)	USCBE (m)	DSIE (m)	DSCBE (m)	Sediment
<input type="text" value="1.1"/>	<input type="text" value="Concrete"/>	<input type="text" value="100.00"/>	<input type="text" value="-999.99"/>	<input type="text" value="99.79"/>	<input type="text" value="-999.99"/>	<input type="text"/>

### Downstream Control

#### X-Section

Station	Top LB	Toe LB	Bed 1	Bed 2	Bed 3	Toe RB	Top RB
Distance (m)	<input type="text" value="0.00"/>	<input type="text" value="1.40"/>	<input type="text" value="1.80"/>	<input type="text" value="2.20"/>	<input type="text" value="2.50"/>	<input type="text" value="2.90"/>	<input type="text" value="5.60"/>
Elevation (m)	<input type="text" value="100.38"/>	<input type="text" value="100.01"/>	<input type="text" value="99.90"/>	<input type="text" value="99.91"/>	<input type="text" value="99.98"/>	<input type="text" value="99.94"/>	<input type="text" value="100.61"/>
Substrate	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Downstream Control Water Surface Elevation (m):

Downstream Control OHW Surface Elevation (m):

### Downstream of Control

Water Surface Elevation (m):  Channel Dominant Substrate:

Distance Downstream (m):

### Results

Velocity (m/sec):  Depth (m):

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## WDFW Fish Passage and Diversion Screening Inventory Database

### Habitat Survey Summary Report

Site ID: **999114**

Latitude: **48.319176743** Longitude: **-122.280296755** WRIA: **03.0194**

Stream: **unnamed** Tributary To: **Starbird Cr** PI Total: **14.82**

Survey Type

Spreadsheet File(s):

03.0181 0.50.xls, 03.0181 0.50d.xls, 03.0181 0.50d5.xls,

#### Downstream Survey

Date:  Crew:  Length (m):

Downstream Comments:

No spawning habitat. Good rearing habitat. Heavily impacted by cattle.

#### Upstream Survey

Date:  Crew:  Length (m):

Upstream Comments:

No spawning habitat (little to no gravel), wetland area above site 999114 leading into large pond which is source of flow.

#### Potential Habitat Gain

Lineal (m):

Spawning Area (sq m):

Rearing Area (sq m):

Distribution

- ☒ Anadromous  
☐ Resident Only  
☐ Unknown

Gain Direction (Resident Only):

#### Potential Species Benefit

☐ Sockeye / Kokanee

☐ Chinook

☒ Searun Cutthroat

☐ Pink

☒ Coho

☒ Resident Trout

☐ Chum

☒ Steelhead

☐ Bull Trout

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# WDFW Fish Passage and Diversion Screening Inventory Database

## Barrier Priority Index Report

Site ID: 999114

Stream	<input type="text" value="unnamed"/>	Trib To	<input type="text" value="Starbird Cr"/>	WRIA	<input type="text" value="03.0194"/>
Habitat (H) Estimation Method			<input type="text" value="RSFS"/>		

	B	H	M	D	C	Species PI
Sockeye	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text" value="0.00"/>
Pink	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text" value="0.00"/>
Chum	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text" value="0.00"/>
Coho	<input type="text" value="0.67"/>	<input type="text" value="3,080"/>	<input type="text" value="2"/>	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="4.51"/>
Chinook	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text" value="0.00"/>
Steelhead	<input type="text" value="0.67"/>	<input type="text" value="3,080"/>	<input type="text" value="2"/>	<input type="text" value="2"/>	<input type="text" value="2"/>	<input type="text" value="2.43"/>
Searun Cutthroat	<input type="text" value="0.67"/>	<input type="text" value="3,080"/>	<input type="text" value="2"/>	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="4.18"/>
Resident Trout	<input type="text" value="0.67"/>	<input type="text" value="3,483"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3.70"/>
Dolly/Bull Trout	<input type="text" value="0.67"/>	<input type="text"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="0.00"/>
					<b>TOTAL PI</b>	<b>14.82</b>

B = proportion of fish passage improvement (1, 0.67, 0.33).

H = potential habitat gain (square meters), spawning habitat for sockeye, pink and chum, rearing habitat for the rest.

M= mobility modifier (anadromous = 2, resident = 1).

D = stock condition modifier (critical = 3, depressed = 2, not 2 or 3 = 1).

C= repair cost modifier (<\$100K = 3, \$100K - \$500K = 2, >\$500K = 1).

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# WDFW Fish Passage and Diversion Screening Inventory Database

## Image Report - Active

Site ID: 999114

Latitude: 48.319176743

Stream: unnamed

WRIA:

03.0194

Longitude: -122.280296755

Tributary To: Starbird Cr

Fish Use Potential:

Yes

### Associated Features

☒ Culvert

☐ Dam

☐ Natural Barrier

☐ Diversion

☐ Non-Culvert Xing

☐ Other

☐ Fishway



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